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375

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Glu Leu Gln Ile Met Arg Lys Leu Asp His Cys Asn Ile Val Arg Leu
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Arg Tyr Phe Phe Tyr Ser Ser Gly Glu Lys Lys Asp Glu Val Tyr Leu
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Ile Lys Ile Leu Lys Asn His Pro Ser Tyr Ala Arg Gln Gly Gln Ile
 Page 62

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 Ala Asp Leu Lys Pro₃₂₅ Glu Asn Ile Met Leu₃₃₀ Val Asp Pro Val Arg₃₃₅ Gln
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 Leu Glu Glu His Glu Ala Glu₄₅₅ Thr Gly Met Lys Ser₄₆₀ Lys Glu Ala Arg
 Lys₄₆₅ Tyr Ile Phe Asn Ser₄₇₀ Leu Asp Asp Val Ala₄₇₅ His Val Asn Thr Val₄₈₀

Met Asp Leu Glu Gly Ser Asp Leu Leu Ala Glu Lys Ala Asp Arg Arg
 485 490 495

Glu Phe Val Ser Leu Leu Lys Lys Met Leu Leu Ile Asp Ala Asp Leu
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Arg Ile Thr Pro Ala Glu Thr Leu Asn His Pro Phe Val Asn Met Lys
 515 520 525

His Leu Leu Asp Phe Pro His Ser Asn His Val Lys Ser Cys Phe His
 530 535 540

Ile Met Asp Ile Cys Lys Ser His Leu Asn Ser Cys Asp Thr Asn Asn
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His Asn Lys Thr Ser Leu Leu Arg Pro Val Ala Ser Ser Ser Thr Ala
 565 570 575

Thr Leu Thr Ala Asn Phe Thr Lys Ile Gly Thr Leu Arg Ser Gln Ala
 580 585 590

Leu Thr Thr Ser Ala His Ser Val Val His His Gly Ile Pro Leu Gln
 595 600 605

Ala Gly Thr Ala Gln Phe Gly Cys Gly Asp Ala Phe Gln Gln Thr Leu
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Ile Ile Cys Pro Pro Ala Ile Gln Gly Ile Pro Ala Thr His Gly Lys
 625 630 635 640

Pro Thr Ser Tyr Ser Ile Arg Val Asp Asn Thr Val Pro Leu Val Thr
 645 650 655

Gln Ala Pro Ala Val Gln Pro Leu Gln Ile Arg Pro Gly Val Leu Ser
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Gln Thr Trp Ser Gly Arg Thr Gln Gln Met Leu Val Pro Ala Trp Gln
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 705 710 715 720

Ser Asn His Tyr Asn Ser Val Met Pro Gln Pro Leu Leu Thr Asn Gln
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Ile Thr Leu Ser Ala Pro Gln Pro Val Ser Val Gly Ile Ala His Val
740 745 750

Val Trp Pro Gln Pro Ala Thr Thr Lys Lys Asn Lys Gln Cys Gln Asn
755 760 765

Arg Gly Ile Leu Val Lys Leu Met Glu Trp Glu Pro Gly Arg Glu Glu
770 775 780

Ile Asn Ala Phe Ser Trp Ser Asn Ser Leu Gln Asn Thr Asn Ile Pro
785 790 795 800

His Ser Ala Phe Ile Ser Pro Lys Ile Ile Asn Gly Lys Asp Val Glu
805 810 815

Glu Val Ser Cys Ile Glu Thr Gln Asp Asn Gln Asn Ser Glu Gly Glu
820 825 830

Ala Arg Asn Cys Cys Glu Thr Ser Ile Arg Gln Asp Ser Asp Ser Ser
835 840 845

Val Ser Asp Lys Gln Arg Gln Thr Ile Ile Ile Ala Asp Ser Pro Ser
850 855 860

Pro Ala Val Ser Val Ile Thr Ile Ser Ser Asp Thr Asp Glu Glu Glu
865 870 875 880

Thr Ser Gln Arg His Ser Leu Arg Glu Cys Lys Gly Ser Leu Asp Cys
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Glu Ala Cys Gln Ser Thr Leu Asn Ile Asp Arg Met Cys Ser Leu Ser
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Ser Pro Asp Ser Thr Leu Ser Thr Ser Ser Ser Gly Gln Ser Ser Pro
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Ser Pro Cys Lys Arg Pro Asn Ser Met Ser Asp Glu Glu Gln Glu Ser
930 935 940

Ser Cys Asp Thr Val Asp Gly Ser Pro Thr Ser Asp Ser Ser Gly His
945 950 955 960

Asp Ser Pro Phe Ala Glu Ser Thr Phe Val Glu Asp Thr His Glu Asn
965 970 975

Thr Glu Leu Val Ser Ser Ala Asp Thr Glu Thr Lys Pro Ala Val Cys
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 995 1000 1005

Glu His Met Ala Asn Thr Asp Ser Ile Cys Gln Pro Leu Ile Lys
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Thr Arg Gln Gln Lys Leu Thr Ser Ala Phe Gln Gln Gln His Leu
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Asn Phe Ser Gln Val Gln His Phe Gly Ser Gly His Gln Glu Trp
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His Thr Ala Val His Ala His Leu Ala Gly Asn Thr His Leu Gly
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Gly Gln Pro Thr Leu Leu Pro Tyr Pro Ser Ser Ala Thr Leu Ser
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Ser Ala Ala Pro Val Ala His Leu Leu Ala Ser Pro Cys Thr Ser
 1130 1135 1140

Arg Pro Met Leu Gln His Pro Thr Tyr Asn Ile Ser His Pro Ser
 1145 1150 1155

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Pro Ser Pro Thr Ile His Gln Thr Gln Tyr Lys Pro Ile Phe Pro
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 35 40 45

Arg Val Gly Asp Glu Ile Arg Leu Leu Cys Thr Asp Pro Gly Phe Val
 50 55 60

Lys Trp Thr Phe Glu Ile Leu Asp Glu Thr Asn Glu Asn Lys Gln Asn
 65 70 75 80

Glu Trp Ile Thr Glu Lys Ala Glu Ala Thr Asn Thr Gly Lys Tyr Thr
 85 90 95

Cys Thr Asn Lys His Gly Leu Ser Asn Ser Ile Tyr Val Phe Val Arg
 100 105 110

Asp Pro Ala Lys Leu Phe Leu Val Asp Arg Ser Leu Tyr Gly Lys Glu
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Asp Asn Asp Thr Leu Val Arg Cys Pro Leu Thr Asp Pro Glu Val Thr
 130 135 140

Asn Tyr Ser Leu Lys Gly Cys Gln Gly Lys Pro Leu Pro Lys Asp Leu
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Arg Phe Ile Pro Asp Pro Lys Ala Gly Ile Met Ile Lys Ser Val Lys
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 195 200 205

Lys Ala Val Pro Val Val Ser Val Ser Lys Ala Ser Tyr Leu Leu Arg
 210 215 220

Glu Gly Glu Glu Phe Thr Val Thr Cys Thr Ile Lys Asp Val Ser Ser
 Page 67

225 230 235 240
 Ser Val Tyr Ser Thr Trp Lys Arg Glu Asn Ser Gln Thr Lys Leu Gln
 245 250 255
 Glu Lys Tyr Asn Ser Trp His His Gly Asp Phe Asn Tyr Glu Arg Gln
 260 265 270
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 Tyr Glu Ala Phe Pro Lys Pro Glu His Gln Gln Trp Ile Tyr Met Asn
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 Arg Thr Phe Thr Asp Lys Trp Glu Asp Tyr Pro Lys Ser Glu Asn Glu
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 Thr Tyr Asp Arg Leu Val Asn Gly Met Leu Gln Cys Val Ala Ala Gly
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Ser Ala Phe Lys His Asn Gly Thr Val Glu Cys Lys Ala Tyr Asn Asp
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Val Gly Lys Thr Ser Ala Tyr Phe Asn Phe Ala Phe Lys Gly Asn Asn
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Phe Val Ile Val Ala Gly Met Met Cys Ile Ile Val Met Ile Leu Thr
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Glu Glu Ile Asn Gly Asn Asn Tyr Val Tyr Ile Asp Pro Thr Gln Leu
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Pro Tyr Asp His Lys Trp Glu Phe Pro Arg Asn Arg Leu Ser Phe Gly
 580 585 590

Lys Thr Leu Gly Ala Gly Ala Phe Gly Lys Val Val Glu Ala Thr Ala
 595 600 605

Tyr Gly Leu Ile Lys Ser Asp Ala Ala Met Thr Val Ala Val Lys Met
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Leu Lys Pro Ser Ala His Leu Thr Glu Arg Glu Ala Leu Met Ser Glu
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Leu Lys Val Leu Ser Tyr Leu Gly Asn His Met Asn Ile Val Asn Leu
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Leu Gly Ala Cys Thr Ile Gly Gly Pro Thr Leu Val Ile Thr Glu Tyr
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Cys Cys Tyr Gly Asp Leu Leu Asn Phe Leu Arg Arg Lys Arg Asp Ser
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Phe Ile Cys Ser Lys Gln Glu Asp His Ala Glu Ala Ala Leu Tyr Lys
 690 695 700

Asn Leu Leu His Ser Lys Glu Ser Ser Cys Ser Asp Ser Thr Asn Glu
 705 710 715 720

Tyr Met Asp Met Lys Pro Gly Val Ser Tyr Val Val Pro Thr Lys Ala
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Asp Lys Arg Arg Ser Val Arg Ile Gly Ser Tyr Ile Glu Arg Asp Val
740 745 750

Thr Pro Ala Ile Met Glu Asp Asp Glu Leu Ala Leu Asp Leu Glu Asp
755 760 765

Leu Leu Ser Phe Ser Tyr Gln Val Ala Lys Gly Met Ala Phe Leu Ala
770 775 780

Ser Lys Asn Cys Ile His Arg Asp Leu Ala Ala Arg Asn Ile Leu Leu
785 790 795 800

Thr His Gly Arg Ile Thr Lys Ile Cys Asp Phe Gly Leu Ala Arg Asp
805 810 815

Ile Lys Asn Asp Ser Asn Tyr Val Val Lys Gly Asn Ala Arg Leu Pro
820 825 830

Val Lys Trp Met Ala Pro Glu Ser Ile Phe Asn Cys Val Tyr Thr Phe
835 840 845

Glu Ser Asp Val Trp Ser Tyr Gly Ile Phe Leu Trp Glu Leu Phe Ser
850 855 860

Leu Gly Ser Ser Pro Tyr Pro Gly Met Pro Val Asp Ser Lys Phe Tyr
865 870 875 880

Lys Met Ile Lys Glu Gly Phe Arg Met Leu Ser Pro Glu His Ala Pro
885 890 895

Ala Glu Met Tyr Asp Ile Met Lys Thr Cys Trp Asp Ala Asp Pro Leu
900 905 910

Lys Arg Pro Thr Phe Lys Gln Ile Val Gln Leu Ile Glu Lys Gln Ile
915 920 925

Ser Glu Ser Thr Asn His Ile Tyr Ser Asn Leu Ala Asn Cys Ser Pro
930 935 940

Asn Arg Gln Lys Pro Val Val Asp His Ser Val Arg Ile Asn Ser Val
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<400> 39

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Glu Gly Ala Tyr Gly Met Val Cys Ser Ala Tyr Asp Asn Val Asn Lys
 35 40 45

Val Arg Val Ala Ile Lys Lys Ile Ser Pro Phe Glu His Gln Thr Tyr
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Cys Gln Arg Thr Leu Arg Glu Ile Lys Ile Leu Leu Arg Phe Arg His
 65 70 75 80

Glu Asn Ile Ile Gly Ile Asn Asp Ile Ile Arg Ala Pro Thr Ile Glu
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Gln Met Lys Asp Val Tyr Ile Val Gln Asp Leu Met Glu Thr Asp Leu
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Tyr Lys Leu Leu Lys Thr Gln His Leu Ser Asn Asp His Ile Cys Tyr
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Phe Leu Tyr Gln Ile Leu Arg Gly Leu Lys Tyr Ile His Ser Ala Asn
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Val Leu His Arg Asp Leu Lys Pro Ser Asn Leu Leu Leu Asn Thr Thr
 145 150 155 160

Cys Asp Leu Lys Ile Cys Asp Phe Gly Leu Ala Arg Val Ala Asp Pro
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Tyr Arg Ala Pro Glu Ile Met Leu Asn Ser Lys Gly Tyr Thr Lys Ser
 195 200 205

Ile Asp Ile Trp Ser Val Gly Cys Ile Leu Ala Glu Met Leu Ser Asn
 210 215 220

Arg Pro Ile Phe Pro Gly Lys His Tyr Leu Asp Gln Leu Asn His Ile
 225 230 235 240

Leu Gly Ile Leu Gly Ser Pro Ser Gln Glu Asp Leu Asn Cys Ile Ile
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Asn Leu Lys Ala Arg Asn Tyr Leu Leu Ser Leu Pro His Lys Asn Lys
 260 265 270

Val Pro Trp Asn Arg Leu Phe Pro Asn Ala Asp Ser Lys Ala Leu Asp
 275 280 285

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<400> 40

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 35 40 45

Tyr Ser Val Glu Val Gly Asp Ser Thr Phe Thr Val Leu Lys Arg Tyr
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Gln Asn Leu Lys Pro Ile Gly Ser Gly Ala Gln Gly Ile Val Cys Ala
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Ala Tyr Asp Ala Val Leu Asp Arg Asn Val Ala Ile Lys Lys Leu Ser
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Arg Pro Phe Gln Asn Gln Thr His Ala Lys Arg Ala Tyr Arg Glu Leu
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Val Leu Met Lys Cys Val Asn His Lys Asn Ile Ile Ser Leu Leu Asn
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Val Phe Thr Pro Gln Lys Thr Leu Glu Glu Phe Gln Asp Val Tyr Leu
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Val Met Glu Leu Met Asp Ala Asn Leu Cys Gln Val Ile Gln Met Glu
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165 170 175

Ile Lys His Leu His Ser Ala Gly Ile Ile His Arg Asp Leu Lys Pro
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195 200 205

Gly Leu Ala Arg Thr Ala Gly Thr Ser Phe Met Met Thr Pro Tyr Val
210 215 220

Val Thr Arg Tyr Tyr Arg Ala Pro Glu Val Ile Leu Gly Met Gly Tyr
225 230 235 240

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245 250 255

Val Arg His Lys Ile Leu Phe Pro Gly Arg Asp Tyr Ile Asp Gln Trp
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Asn Lys Val Ile Glu Gln Leu Gly Thr Pro Cys Pro Glu Phe Met Lys
275 280 285

Lys Leu Gln Pro Thr Val Arg Asn Tyr Val Glu Asn Arg Pro Lys Tyr
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Ala Gly Leu Thr Phe Pro Lys Leu Phe Pro Asp Ser Leu Phe Pro Ala
305 310 315 320

Asp Ser Glu His Asn Lys Leu Lys Ala Ser Gln Ala Arg Asp Leu Leu
325 330 335

Ser Lys Met Leu Val Ile Asp Pro Ala Lys Arg Ile Ser Val Asp Asp
Page 73

340

Ala Leu Gln His Pro Tyr Ile Asn Val Trp Tyr Asp Pro Ala Glu Val
355 360 365

Glu Ala Pro Pro Pro Gln Ile Tyr Asp Lys Gln Leu Asp Glu Arg Glu
370 375 380

His Thr Ile Glu Glu Trp Lys Glu Leu Ile Tyr Lys Glu Val Met Asn
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<210> 41
<211> 377
<212> PRT
<213> Homo sapiens
<400> 41

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Glu Lys Phe Glu Ser Leu Met Asn Ile His Gly Phe Asp Leu Asp Ser
35 40 45

Thr Tyr Met Asp Leu Lys Pro Leu Gly Cys Gly Gly Asn Tyr Leu Phe
50 55 60

Phe Ser Ala Val Asp Asn Asp Cys Asp Lys Arg Val Ala Ile Lys Lys
65 70 75 80

Ile Val Leu Thr Asn Pro Gln Ser Val Lys His Ala Leu Cys Glu Ile
85 90 95

Lys Ile Ile Arg Arg Leu Asp His Asp Asn Ile Val Lys Val Phe Glu
100 105 110

Ile Pro Gly Pro Ser Gly Ser Gln Leu Thr Asp Asp Val Gly Ser Leu
115 120 125

Thr Glu Leu Asn Ser Val Tyr Ile Val Gln Glu Tyr Met Lys Thr Asp
Page 74

130

135

140

Leu Ser Lys Val Leu Glu Gln Gly Pro Leu Leu Glu Glu His Ala Arg
 145 150 155 160

Leu Phe Met Tyr Gln Leu Leu Arg Gly Leu Lys Tyr Ile His Ser Ala
 165 170 175

Asn Val Leu His Arg Asp Leu Lys Pro Thr Asn Leu Phe Ile Asn Thr
 180 185 190

Glu Asp Leu Val Leu Lys Ile Gly Asp Phe Gly Leu Ala Arg Ile Met
 195 200 205

Asp Pro His Tyr Ser Arg Ala His Glu Leu Glu Gln Met Gln Leu Thr
 210 215 220

Leu Glu Ser Ile Pro Val Ala His Glu Glu Asp Arg Gln Glu Leu Leu
 225 230 235 240

Ser Val Ile Pro Val Tyr Ile Arg Asn His Met Thr Glu Pro His Lys
 245 250 255

Pro Leu Thr Gln Leu Leu Pro Gly Ile Ser Arg Glu Ala Leu Asn Phe
 260 265 270

Leu Glu Gln Ile Leu Thr Phe Ser Pro Met Asp Trp Leu Ile Ala Glu
 275 280 285

Glu Ala Leu Ser His Pro Tyr Met Ser Ile Cys Ser Phe Pro Met Asp
 290 295 300

Lys Pro Ile Ser Ser His Pro Phe His Ile Glu Asp Glu Ala His Asn
 305 310 315 320

Ile Leu Leu Met Asp Glu Thr His Ser His Ile Tyr Asn Trp Glu Arg
 325 330 335

Tyr Tyr Asp Cys Gln Phe Ser Glu His Asp Trp Pro Ile His Asn Asn
 340 345 350

Phe Asp Ile Asp Glu Val Gln Leu Asn Pro Arg Ala Leu Ser Asp Val
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Thr Asp Glu Glu Val Gln Val Asp Pro
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 <213> Homo sapiens

<400> 42

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Leu Val Phe Ser Ala Val Asp Asn Asp Cys Asp Lys Arg Val Ala Ile
 35 40 45

Lys Lys Ile Val Leu Thr Asp Pro Gln Ser Val Lys His Ala Leu Arg
 50 55 60

Glu Ile Lys Ile Ile Arg Arg Leu Asp His Asp Asn Ile Val Lys Val
 65 70 75 80

Phe Glu Ile Leu Gly Pro Ser Gly Ser Gln Leu Thr Asp Asp Val Gly
 85 90 95

Ser Leu Thr Glu Leu Asn Ser Val Tyr Ile Val Gln Glu Tyr Met Glu
 100 105 110

Thr Asp Leu Ala Asn Val Leu Glu Gln Gly Pro Leu Leu Glu Glu His
 115 120 125

Ala Arg Leu Phe Met Tyr Gln Leu Leu Arg Gly Leu Lys Tyr Ile His
 130 135 140

Ser Ala Asn Val Leu His Arg Asp Leu Lys Pro Ala Asn Leu Phe Ile
 145 150 155 160

Asn Thr Glu Asp Leu Val Leu Lys Ile Gly Asp Phe Gly Leu Ala Arg
 165 170 175

Ile Met Asp Pro His Tyr Ser His Lys Gly His Leu Ser Glu Gly Leu
 180 185 190

Val Thr Lys Trp Tyr Arg Ser Pro Arg Leu Leu Leu Ser Pro Asn Asn
 195 200 205

Tyr Thr Lys Ala Ile Asp Met Trp Ala Ala Gly Cys Ile Phe Ala Glu
 210 215 220

Met Leu Thr Gly Lys Thr Leu Phe Ala Gly Ala His Glu Leu Glu Gln
 225 230 235 240

Met Gln Leu Ile Leu Glu Ser Ile Pro Val Val His Glu Glu Asp Arg
 245 250 255

Gln Glu Leu Leu Ser Val Ile Pro Val Tyr Ile Arg Asn Asp Met Thr
 260 265 270

Glu Pro His Lys Pro Leu Thr Gln Leu Leu Pro Gly Ile Ser Arg Glu
 275 280 285

Ala Leu Asp Phe Leu Glu Gln Ile Leu Thr Phe Ser Pro Met Asp Arg
 290 295 300

Leu Thr Ala Glu Glu Ala Leu Ser His Pro Tyr Met Ser Ile Tyr Ser
 305 310 315 320

Phe Pro Met Asp Glu Pro Ile Ser Ser His Pro Phe His Ile Glu Asp
 325 330 335

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 340 345 350

Asn Trp Glu Arg Tyr His Asp Cys Gln Phe Ser Glu His Asp Trp Pro
 355 360 365

Val His Asn Asn Phe Asp Ile Asp Glu Val Gln Leu Asp Pro Arg Ala
 370 375 380

Leu Ser Asp Val Thr Asp Glu Glu Glu Val Gln Val Asp Pro Arg Lys
 385 390 395 400

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Thr Asn Tyr Ser Thr Glu Pro Cys Trp Gln Tyr Ser Asp His His Glu
 420 425 430

Asn Lys Tyr Cys Asp Leu Glu Cys Ser His Thr Cys Asn Tyr Lys Thr
 435 440 445

Arg Ser Ser Ser Tyr Leu Asp Asn Leu Val Trp Arg Glu Ser Glu Val
 450 455 460

Asn His Tyr Tyr Glu Pro Lys Leu Ile Ile Asp Leu Ser Asn Trp Lys
 465 470 475 480

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Glu Gln Ser Lys Glu Lys Ser Asp Lys Lys Gly Lys Ser Lys Cys Glu
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Gln Leu Ala Gly Lys Glu Arg Glu Lys Asn Gln Gly Phe Asp Phe Asp
515 520 525

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Asp Val Val Asp Lys Leu Asn Asp Leu Asn Ser Ser Val Ser Gln Leu
545 550 555 560

Glu Leu Lys Ser Leu Ile Ser Lys Ser Val Ser Gln Glu Lys Gln Glu
565 570 575

Lys Gly Met Ala Asn Leu Ala Gln Leu Glu Ala Leu Tyr Gln Ser Ser
580 585 590

Trp Asp Ser Gln Phe Val Ser Gly Gly Glu Asp Cys Phe Phe Ile Asn
595 600 605

Gln Phe Cys Glu Val Arg Lys Asp Glu Gln Val Glu Lys Glu Asn Thr
610 615 620

Tyr Thr Ser Tyr Leu Asp Lys Phe Phe Ser Arg Lys Glu Asp Thr Glu
625 630 635 640

Met Leu Glu Thr Glu Pro Val Glu Asp Gly Lys Leu Gly Glu Arg Gly
645 650 655

His Glu Glu Gly Phe Leu Asn Asn Ser Gly Glu Phe Leu Phe Asn Lys
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Gln Leu Glu Ser Ile Gly Ile Pro Gln Phe His Ser Pro Val Gly Ser
675 680 685

Pro Leu Lys Ser Ile Gln Ala Thr Leu Thr Pro Ser Ala Met Lys Ser
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Asn

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 <213> Homo sapiens

<400> 43

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Lys Lys Ile Ala Leu Ser Asp Ala Arg Ser Met Lys His Ala Leu Arg
 50 55 60

Glu Ile Lys Ile Ile Arg Arg Leu Asp His Asp Asn Ile Val Lys Val
 65 70 75 80

Tyr Glu Val Leu Gly Pro Lys Gly Thr Asp Leu Gln Gly Glu Leu Phe
 85 90 95

Lys Phe Ser Val Ala Tyr Ile Val Gln Glu Tyr Met Glu Thr Asp Leu
 100 105 110

Ala Arg Leu Leu Glu Gln Gly Thr Leu Ala Glu Glu His Ala Lys Leu
 115 120 125

Phe Met Tyr Gln Leu Leu Arg Gly Leu Lys Tyr Ile His Ser Ala Asn
 130 135 140

Val Leu His Arg Asp Leu Lys Pro Ala Asn Ile Phe Ile Ser Thr Glu
 145 150 155 160

Asp Leu Val Leu Lys Ile Gly Asp Phe Gly Leu Ala Arg Ile Val Asp
 165 170 175

Gln His Tyr Ser His Lys Gly Tyr Leu Ser Glu Gly Leu Val Thr Lys
 180 185 190

Trp Tyr Arg Ser Pro Arg Leu Leu Leu Ser Pro Asn Asn Tyr Thr Lys
 195 200 205

Ala Ile Asp Met Trp Ala Ala Gly Cys Ile Leu Ala Glu Met Leu Thr
 210 215 220

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Gly Arg Met Leu Phe Ala Gly Ala His Glu Leu Glu Gln Met Gln Leu
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260 265 270

Pro Leu Arg Lys Leu Leu Pro Glu Val Asn Ser Glu Ala Ile Asp Phe
275 280 285

Leu Glu Lys Ile Leu Thr Phe Asn Pro Met Asp Arg Leu Thr Ala Glu
290 295 300

Met Gly Leu Gln His Pro Tyr Met Ser Pro Tyr Ser Cys Pro Glu Asp
305 310 315 320

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325 330 335

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Cys Ser Ser Arg Tyr Pro Val Ser Leu Ser Ser Asp Leu Glu Trp Arg
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370 375 380

Phe Gly Ala Leu Ala Glu Asp Val Gln Val Asp Pro Arg Lys Asp Ser
385 390 395 400

His Ser Ser Ser Glu Arg Phe Leu Glu Gln Ser His Ser Ser Met Glu
405 410 415

Arg Ala Phe Glu Ala Asp Tyr Gly Arg Ser Cys Asp Tyr Lys Val Gly
420 425 430

Ser Pro Ser Tyr Leu Asp Lys Leu Leu Trp Arg Asp Asn Lys Pro His
435 440 445

His Tyr Ser Glu Pro Lys Leu Ile Leu Asp Leu Ser His Trp Lys Gln
450 455 460

Ala Ala Gly Ala Pro Pro Thr Ala Thr Gly Leu Ala Asp Thr Gly Ala
Page 80

465

470

475

480

Arg Glu Asp Glu Pro Ala Ser Leu Phe Leu Glu Ile Ala Gln Trp Val
 485 490 495

Lys Ser Thr Gln Gly Ala Gln Ser Thr Pro Ala Arg Pro Pro Thr Thr
 500 505 510

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 <213> Homo sapiens

<400> 44

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Ile Val Thr Tyr Lys Glu Ser Trp Glu Gly Gly Asp Gly Leu Leu Tyr
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Ile Val Met Gly Phe Cys Glu Gly Gly Asp Leu Tyr Arg Lys Leu Lys
 85 90 95

Glu Gln Lys Gly Gln Leu Leu Pro Glu Asn Gln Val Val Glu Trp Phe
 100 105 110

Val Gln Ile Ala Met Ala Leu Gln Tyr Leu His Glu Lys His Ile Leu
 115 120 125

His Arg Asp Leu Lys Thr Gln Asn Val Phe Leu Thr Arg Thr Asn Ile
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135

140

Ile Lys Val Gly Asp Leu Gly Ile Ala Arg Val Leu Glu Asn His Cys
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Asp Met Ala Ser Thr Leu Ile Gly Thr Pro Tyr Tyr Met Ser Pro Glu
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 370 375 380

Glu Asn Gln Pro Arg Tyr Leu Asp Ala Ser Asn Glu Leu Gly Gly Ile
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 565 570 575

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 580 585 590

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725 730 735

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755 760 765

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770 775 780

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785 790 795 800

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50 55 60

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65 70 75 80

Ile Ile Asn Glu Asp Asp Val Glu Ala Tyr Val Gly Leu Arg Asn Leu
85 90 95

Thr Ile Val Asp Ser Gly Leu Lys Phe Val Ala His Lys Ala Phe Leu
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Val Pro Asn Met Tyr Trp Asp Val Gly Asn Leu Val Ser Lys His Met
225 230 235 240

Asn Glu Thr Ser His Thr Gln Gly Ser Leu Arg Ile Thr Asn Ile Ser
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Ser Asp Asp Ser Gly Lys Gln Ile Ser Cys Val Ala Glu Asn Leu Val
260 265 270

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Gly Glu Asp Gln Asp Ser Val Asn Leu Thr Val His Phe Ala Pro Thr
 275 280 285

Ile Thr Phe Leu Glu Ser Pro Thr Ser Asp His His Trp Cys Ile Pro
 290 295 300

Phe Thr Val Lys Gly Asn Pro Lys Pro Ala Leu Gln Trp Phe Tyr Asn
 305 310 315 320

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 325 330 335

Thr Asn His Thr Glu Tyr His Gly Cys Leu Gln Leu Asp Asn Pro Thr
 340 345 350

His Met Asn Asn Gly Asp Tyr Thr Leu Ile Ala Lys Asn Glu Tyr Gly
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Lys Asp Glu Lys Gln Ile Ser Ala His Phe Met Gly Trp Pro Gly Ile
 370 375 380

Asp Asp Gly Ala Asn Pro Asn Tyr Pro Asp Val Ile Tyr Glu Asp Tyr
 385 390 395 400

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 405 410 415

Ile Pro Ser Thr Asp Val Thr Asp Lys Thr Gly Arg Glu His Leu Ser
 420 425 430

Val Tyr Ala Val Val Val Ile Ala Ser Val Val Gly Phe Cys Leu Leu
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 485 490 495

Gly Pro Asp Ala Val Ile Ile Gly Met Thr Lys Ile Pro Val Ile Glu
 500 505 510

Asn Pro Gln Tyr Phe Gly Ile Thr Asn Ser Gln Leu Lys Pro Asp Thr
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Phe Val Gln His Ile Lys Arg His Asn Ile Val Leu Lys Arg Glu Leu
530 535 540

Gly Glu Gly Ala Phe Gly Lys Val Phe Leu Ala Glu Cys Tyr Asn Leu
545 550 555 560

Cys Pro Glu Gln Asp Lys Ile Leu Val Ala Val Lys Thr Leu Lys Asp
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Thr Asn Leu Gln His Glu His Ile Val Lys Phe Tyr Gly Val Cys Val
595 600 605

Glu Gly Asp Pro Leu Ile Met Val Phe Glu Tyr Met Lys His Gly Asp
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675 680 685

Leu Val Lys Ile Gly Asp Phe Gly Met Ser Arg Asp Val Tyr Ser Thr
690 695 700

Asp Tyr Tyr Arg Val Gly Gly His Thr Met Leu Pro Ile Arg Trp Met
705 710 715 720

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740 745 750

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 50 55 60

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Asn Thr Ser Ser Val Gln Leu Val Lys Ser Trp Tyr Ile Gln Ser Leu
 85 90 95

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 100 105 110

Leu Ser Asp Phe Val Asp Thr Leu Ile Lys Val Arg Asn Arg His His
 115 120 125

Asn Val Val Pro Thr Met Ala Gln Gly Ile Ile Glu Tyr Lys Asp Ala
 130 135 140

Cys Thr Val Asp Pro Val Thr Asn Gln Asn Leu Gln Tyr Phe Leu Asp
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Arg Phe Tyr Met Asn Arg Ile Ser Thr Arg Met Leu Met Asn Gln His
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 180 185 190

Ser Ile Asp Pro Asn Cys Asp Val Val Ala Val Val Gln Asp Ala Phe
 195 200 205

Glu Cys Ser Arg Met Leu Cys Asp Gln Tyr Tyr Leu Ser Ser Pro Glu
 210 215 220

Leu Lys Leu Thr Gln Val Asn Gly Lys Phe Pro Asp Gln Pro Ile His
 225 230 235 240

Ile Val Tyr Val Pro Ser His Leu His His Met Leu Phe Glu Leu Phe
 245 250 255

Lys Asn Ala Met Arg Ala Thr Val Glu His Gln Glu Asn Gln Pro Ser
 260 265 270

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 290 295 300

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 370 375 380

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 35 40 45

Arg Ser Leu Pro Pro Pro Pro Ala Lys Gly Ser Ile Pro Ile Ser
 50 55 60

Arg Leu Phe Pro Pro Arg Thr Pro Gly Trp His Gln Leu Gln Pro Arg
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 85 90 95

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 100 105 110

Leu Ser Arg Leu Gly His Gly Ser Tyr Gly Glu Val Phe Lys Val Arg
 115 120 125

Ser Lys Glu Asp Gly Arg Leu Tyr Ala Val Lys Arg Ser Met Ser Pro
 130 135 140

Phe Arg Gly Pro Lys Asp Arg Ala Arg Lys Leu Ala Glu Val Gly Ser
 145 150 155 160

His Glu Lys Val Gly Gln His Pro Cys Cys Val Arg Leu Glu Gln Ala
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Trp Glu Glu Gly Gly Ile Leu Tyr Leu Gln Thr Glu Leu Cys Gly Pro
 180 185 190

Ser Leu Gln Gln His Cys Glu Ala Trp Gly Ala Ser Leu Pro Glu Ala
 195 200 205

Gln Val Trp Gly Tyr Leu Arg Asp Thr Leu Leu Ala Leu Ala His Leu
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 370 375 380

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 385 390 395 400

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 405 410 415

Pro Pro Cys Ser Leu Leu Leu Asp Ser Ser Leu Ser Ser Asn Trp Asp
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Asp Asp Ser Leu Gly Pro Ser Leu Ser Pro Glu Ala Val Leu Ala Arg
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 450 455 460

Ala Leu Asp Leu Ser Asp Ile Asn Ser Glu Pro Pro Arg Gly Ser Phe
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His Gln Gly Tyr Ile Gln Val Thr Asp Phe Gly Phe Ala Lys Arg Val
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Lys Gly Arg Thr Trp Thr Leu Cys Gly Thr Pro Glu Tyr Leu Ala Pro
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Thr Leu Gly Thr Gly Ser Phe Gly Arg Val Met Leu Val Lys His Lys
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Glu Thr Gly Asn His Tyr Ala Met Lys Ile Leu Asp Lys Gln Lys Val
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Val Lys Leu Lys Gln Ile Glu His Thr Leu Asn Glu Lys Arg Ile Leu
85 90 95

Gln Ala Val Asn Phe Pro Phe Leu Val Lys Leu Glu Phe Ser Phe Lys
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Asp Asn Ser Asn Leu Tyr Met Val Met Glu Tyr Val Pro Gly Gly Glu
115 120 125

Met Phe Ser His Leu Arg Arg Ile Gly Arg Phe Ser Glu Pro His Ala
130 135 140

Arg Phe Tyr Ala Ala Gln Ile Val Leu Thr Phe Glu Tyr Leu His Ser
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Leu Asp Leu Ile Tyr Arg Asp Leu Lys Pro Glu Asn Leu Leu Ile Asp
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Gln Gln Gly Tyr Ile Gln Val Thr Asp Phe Gly Phe Ala Lys Arg Val
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Lys Gly Arg Thr Trp Thr Leu Cys Gly Thr Pro Glu Tyr Leu Ala Pro
195 200 205

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260 265 270

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275 280 285

Val Asn Asp Ile Lys Asn His Lys Trp Phe Ala Thr Thr Asp Trp Ile
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Ala Ile Tyr Gln Arg Lys Val Glu Ala Pro Phe Ile Pro Lys Phe Lys
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305

310

315

320

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 Page 95

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195 200 205

Lys Gln Lys Thr Lys Thr Ile Arg Ser Thr Leu Asn Pro Gln Trp Asn
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Glu Ser Phe Thr Phe Lys Leu Lys Pro Ser Asp Lys Asp Arg Arg Leu
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Gly Trp Tyr Lys Leu Leu Asn Gln Glu Glu Gly Glu Tyr Tyr Asn Val
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Ser Glu Asp Arg Lys Gln Pro Ser Asn Asn Leu Asp Arg Val Lys Leu
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Thr Asp Phe Asn Phe Leu Met Val Leu Gly Lys Gly Ser Phe Gly Lys
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Lys Leu Asp Asn Val Met Leu Asp Ser Glu Gly His Ile Lys Ile Ala
 465 470 475 480

Asp Phe Gly Met Cys Lys Glu His Met Met Asp Gly Val Thr Thr Arg
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Thr Phe Cys Gly Thr Pro Asp Tyr Ile Ala Pro Glu Ile Ile Ala Tyr
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 545 550 555 560

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 565 570 575

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 580 585 590

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 595 600 605

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 610 615 620

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<213> Homo sapiens

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130     135     140
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 Ala Ser Ser Glu Pro Val₃₁₀ Gly Ile Tyr Gln Gly₃₁₅ Phe Glu Lys Lys Thr₃₂₀
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 Lys Val Leu₃₅₅ Gly Lys Gly Ser Phe₃₆₀ Gly Lys Val Leu Leu₃₆₅ Gly Glu Leu
 Lys Gly₃₇₀ Arg Gly Glu Tyr Ser₃₇₅ Ala Ile Lys Ala Leu₃₈₀ Lys Lys Asp Val
 Val₃₈₅ Leu Ile Asp Asp Asn₃₉₀ Val Glu Cys Thr Met₃₉₅ Val Glu Lys Arg Val₄₀₀
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 Phe Gln Thr Lys₄₂₀ Asp His Leu Phe Phe₄₂₅ Val Met Glu Phe Leu₄₃₀ Asn Gly
 Gly Asp Leu₄₃₅ Met Tyr His Ile Gln₄₄₀ Asp Lys Gly Arg Phe₄₄₅ Glu Leu Tyr
 Arg Ala₄₅₀ Thr Phe Tyr Ala Ala₄₅₅ Glu Ile Met Cys Gly₄₆₀ Leu Gln Phe Leu
 His Ser Lys Gly Ile Ile₄₇₀ Tyr Arg Asp Leu Lys₄₇₅ Leu Asp Asn Val Leu₄₈₀
 Leu Asp Arg Asp Gly₄₈₅ His Ile Lys Ile Ala₄₉₀ Asp Phe Gly Met Cys₄₉₅ Lys

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Glu Asn Ile Phe Gly Glu Ser Arg Ala Ser Thr Phe Cys Gly Thr Pro
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Asp Tyr Ile Ala Pro Glu Ile Leu Gln Gly Leu Lys Tyr Thr Phe Ser
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Val Asp Trp Trp Ser Phe Gly Val Leu Leu Tyr Glu Met Leu Ile Gly
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Gln Ser Pro Phe His Gly Asp Asp Glu Asp Glu Leu Phe Glu Ser Ile
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Arg Val Asp Thr Pro His Tyr Pro Arg Trp Ile Thr Lys Glu Ser Lys
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Thr Leu Leu Glu Lys Arg Arg Leu Glu Pro Pro Phe Arg Pro Lys Val
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Glu Asp Glu Gln Leu Val Leu Gly Ala Ser Gln Glu Pro Val Gly Arg
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Trp Asp Gln Asp Tyr Asp Arg Ala Val Leu Pro Leu Leu Asp Ala Gln
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Gln Pro Cys Tyr Leu Leu Tyr Arg Leu Asp Ser Gln Asn Ala Gln Gly
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Leu Lys Met Leu Tyr Ala Ala Thr Arg Ala Thr Val Lys Lys Glu Phe
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130 135 140

Ala Pro Leu Thr Ser Ala Glu Arg Glu Leu Gln Gln Ile Arg Ile Asn
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Glu Val Lys Thr Glu Ile Ser Val Glu Ser Lys His Gln Thr Leu Gln
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Gly Leu Ala Phe Pro Leu Gln Pro Glu Ala Gln Arg Ala Leu Gln Gln
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195 200 205

Arg Glu Thr Ile Glu Leu Val His Thr Glu Pro Thr Asp Val Ala Gln
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Tyr Ser Met Pro Gly Tyr Lys Cys Ser Ile Lys Glu Arg Met Leu Tyr
260 265 270

Ser Ser Cys Lys Ser Arg Leu Leu Asp Ser Val Glu Gln Asp Phe His
Page 101

275

Leu Glu Ile Ala Lys Lys Ile Glu Ile Gly Asp Gly Ala Glu Leu Thr
290 295 300

Ala Glu Phe Leu Tyr Asp Glu Val His Pro Lys Gln His Ala Phe Lys
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Gln Lys Met Leu Tyr Ala Ala Thr Arg Ala Thr Leu Lys Lys Glu Phe
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115 120 125

Val Ser Leu His Gly Tyr Lys Lys Tyr Leu Leu Ser Gln Ser Ser Pro
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Ala Pro Leu Thr Ala Ala Glu Glu Glu Leu Arg Gln Ile Lys Ile Asn
Page 102

145 150 155 160

Glu Val Gln Thr Asp Val Gly Val Asp Thr Lys His Gln Thr Leu Gln
165 170 175

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180 185 190

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195 200 205

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245 250 255

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260 265 270

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Page 103

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Asp Ser Arg Met Ile Glu Asp Ala Ile Arg Ser His Ser Glu Ser Ala
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 305 310 315 320

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 325 330 335

Asp Ser Ser Tyr Tyr Trp Glu Ile Glu Ala Ser Glu Val Met Leu Ser
 340 345 350

Thr Arg Ile Gly Ser Gly Ser Phe Gly Thr Val Tyr Lys Gly Lys Trp
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 370 375 380

Glu Gln Phe Gln Ala Phe Arg Asn Glu Val Ala Val Leu Arg Lys Thr
 385 390 395 400

Arg His Val Asn Ile Leu Leu Phe Met Gly Tyr Met Thr Lys Asp Asn
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580 585 590

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Tyr Val Thr Lys Tyr Tyr Gly Ser Tyr Leu Lys Asp Thr Lys Leu Trp
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 260 265 270
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115 120 125

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 Ala Lys Gly Glu Pro Pro Asn Ser Asp Leu His Pro Met Arg Val Leu
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 370 375 380
 Glu Leu Glu Asn Ala Phe Ser Leu Ala Glu Glu Ser Cys Pro Gly Ile
 Page 109

385

390

395

400

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His Asn Arg Asn His Leu Thr Ser Thr Arg
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 35 40 45

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 50 55 60

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 65 70 75 80

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Arg Gly Ala Phe Gly Glu Val Arg Leu Val Gln Lys Lys Asp Thr Gly
 100 105 110

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 115 120 125

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 145 150 155 160

Asn Leu Tyr Leu Ile Met Glu Phe Leu Pro Gly Gly Asp Met Met Thr
 165 170 175

Leu Leu Met Lys Lys Asp Thr Leu Thr Glu Glu Glu Thr Gln Phe Tyr
 Page 110

180

Ile Ser Glu Thr Val Leu Ala Ile Asp Ala Ile His Gln Leu Gly Phe
195 200 205

Ile His Arg Asp Ile Lys Pro Asp Asn Leu Leu Leu Asp Ala Lys Gly
210 215 220

His Val Lys Leu Ser Asp Phe Gly Leu Cys Thr Gly Leu Lys Lys Ala
225 230 235 240

His Arg Thr Glu Phe Tyr Arg Asn Leu Thr His Asn Pro Pro Ser Asp
245 250 255

Phe Ser Phe Gln Asn Met Asn Ser Lys Arg Lys Ala Glu Thr Trp Lys
260 265 270

Lys Asn Arg Arg Gln Leu Ala Tyr Ser Thr Val Gly Thr Pro Asp Tyr
275 280 285

Ile Ala Pro Glu Val Phe Met Gln Thr Gly Tyr Asn Lys Leu Cys Asp
290 295 300

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Pro Phe Cys Ser Glu Thr Pro Gln Glu Thr Tyr Arg Lys Val Met Asn
325 330 335

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340 345 350

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385 390 395 400

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Asp Ile Leu Gln Pro Val Pro Asn Thr Thr Glu Pro Asp Tyr Lys Ser
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His Arg Thr Glu Phe Tyr Arg Asn Leu Asn His Ser Leu Pro Ser Asp
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Phe Thr Phe Gln Asn Met Asn Ser Lys Arg Lys Ala Glu Thr Trp Lys
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 385 390 395 400

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340 345 350

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355 360 365

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370 375 380

Ile Phe Lys Leu Arg Leu Gly His Leu Lys Lys Glu Glu Ala Glu Ile
385 390 395 400

Gln Ala Glu Leu Glu Arg Leu Glu Arg Val Arg Asn Leu His Ile Arg
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Glu Leu Lys Arg Ile His Asn Glu Asp Asn Ser Gln Phe Lys Asp His
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Pro Thr Leu Asn Asp Arg Tyr Leu Leu Leu His Leu Leu Gly Arg Gly
435 440 445

Gly Phe Ser Glu Val Tyr Lys Ala Phe Asp Leu Thr Glu Gln Arg Tyr
450 455 460

Val Ala Val Lys Ile His Gln Leu Asn Lys Asn Trp Arg Asp Glu Lys
465 470 475 480

Lys Glu Asn Tyr His Lys His Ala Cys Arg Glu Tyr Arg Ile His Lys
485 490 495

Glu Leu Asp His Pro Arg Ile Val Lys Leu Tyr Asp Tyr Phe Ser Leu
Page 117

500

Asp Thr Asp Ser Phe Cys Thr Val Leu Glu Tyr Cys Glu Gly Asn Asp
515 520 525

Leu Asp Phe Tyr Leu Lys Gln His Lys Leu Met Ser Glu Lys Glu Ala
530 535 540

Arg Ser Ile Ile Met Gln Ile Val Asn Ala Leu Lys Tyr Leu Asn Glu
545 550 555 560

Ile Lys Pro Pro Ile Ile His Tyr Asp Leu Lys Pro Gly Asn Ile Leu
565 570 575

Leu Val Asn Gly Thr Ala Cys Gly Glu Ile Lys Ile Thr Asp Phe Gly
580 585 590

Leu Ser Lys Ile Met Asp Asp Asp Ser Tyr Asn Ser Val Asp Gly Met
595 600 605

Glu Leu Thr Ser Gln Gly Ala Gly Thr Tyr Trp Tyr Leu Pro Pro Glu
610 615 620

Cys Phe Val Val Gly Lys Glu Pro Pro Lys Ile Ser Asn Lys Val Asp
625 630 635 640

Val Trp Ser Val Gly Val Ile Phe Tyr Gln Cys Leu Tyr Gly Arg Lys
645 650 655

Pro Phe Gly His Asn Gln Ser Gln Gln Asp Ile Leu Gln Glu Asn Thr
660 665 670

Ile Leu Lys Ala Thr Glu Val Gln Phe Pro Pro Lys Pro Val Val Thr
675 680 685

Pro Glu Ala Lys Ala Phe Ile Arg Arg Cys Leu Ala Tyr Arg Lys Arg
690 695 700

Asp Arg Ile Asp Val Gln Gln Leu Ala Cys Asp Pro Tyr Leu Leu Pro
705 710 715 720

His Ile Arg Lys Ser Val Ser Thr Ser Ser Pro Ala Gly Ala Ala Ile
725 730 735

Ala Ser Thr Ser Gly Ala Ser Asn Asn Ser Ser Ser Asn
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 <212> PRT
 <213> Homo sapiens

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Gln Asn Phe Lys Leu Ala Gly Val Lys Lys Asp Ile Glu Lys Leu Tyr
 35 40 45

Glu Ala Val Pro Gln Leu Ser Asn Val Phe Lys Ile Glu Asp Lys Ile
 50 55 60

Gly Glu Gly Thr Phe Ser Ser Val Tyr Leu Ala Thr Ala Gln Leu Gln
 65 70 75 80

Val Gly Pro Glu Glu Lys Ile Ala Leu Lys His Leu Ile Pro Thr Ser
 85 90 95

His Pro Ile Arg Ile Ala Ala Glu Leu Gln Cys Leu Thr Val Ala Gly
 100 105 110

Gly Gln Asp Asn Val Met Gly Val Lys Tyr Cys Phe Arg Lys Asn Asp
 115 120 125

His Val Val Ile Ala Met Pro Tyr Leu Glu His Glu Ser Phe Leu Asp
 130 135 140

Ile Leu Asn Ser Leu Ser Phe Gln Glu Val Arg Glu Tyr Met Leu Asn
 145 150 155 160

Leu Phe Lys Ala Leu Lys Arg Ile His Gln Phe Gly Ile Val His Arg
 165 170 175

Asp Val Lys Pro Ser Asn Phe Leu Tyr Asn Arg Arg Leu Lys Lys Tyr
 180 185 190

Ala Leu Val Asp Phe Gly Leu Ala Gln Gly Thr His Asp Thr Lys Ile
 195 200 205

Glu Leu Leu Lys Phe Val Gln Ser Glu Ala Gln Gln Glu Arg Cys Ser
 210 215 220

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Gln Asn Lys Ser His Ile Ile Thr Gly Asn Lys Ile Pro Leu Ser Gly
 225 230 235 240

Pro Val Pro Lys Glu Leu Asp Gln Gln Ser Thr Thr Lys Ala Ser Val
 245 250 255

Lys Arg Pro Tyr Thr Asn Ala Gln Ile Gln Ile Lys Gln Gly Lys Asp
 260 265 270

Gly Lys Glu Gly Ser Val Gly Leu Ser Val Gln Arg Ser Val Phe Gly
 275 280 285

Glu Arg Asn Phe Asn Ile His Ser Ser Ile Ser His Glu Ser Pro Ala
 290 295 300

Val Lys Leu Met Lys Gln Ser Lys Thr Val Asp Val Leu Ser Arg Lys
 305 310 315 320

Leu Ala Thr Lys Lys Lys Ala Ile Ser Thr Lys Val Met Asn Ser Ala
 325 330 335

Val Met Arg Lys Thr Ala Ser Ser Cys Pro Ala Ser Leu Thr Cys Asp
 340 345 350

Cys Tyr Ala Thr Asp Lys Val Cys Ser Ile Cys Leu Ser Arg Arg Gln
 355 360 365

Gln Val Ala Pro Arg Ala Gly Thr Pro Gly Phe Arg Ala Pro Glu Val
 370 375 380

Leu Thr Lys Cys Pro Asn Gln Thr Thr Ala Ile Asp Met Trp Ser Ala
 385 390 395 400

Gly Val Ile Phe Leu Ser Leu Leu Ser Gly Arg Tyr Pro Phe Tyr Lys
 405 410 415

Ala Ser Asp Asp Leu Thr Ala Leu Ala Gln Ile Met Thr Ile Arg Gly
 420 425 430

Ser Arg Glu Thr Ile Gln Ala Ala Lys Thr Phe Gly Lys Ser Ile Leu
 435 440 445

Cys Ser Lys Glu Val Pro Ala Gln Asp Leu Arg Lys Leu Cys Glu Arg
 450 455 460

Leu Arg Gly Met Asp Ser Ser Thr Pro Lys Leu Thr Ser Asp Ile Gln
 465 470 475 480

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Gly His Ala Ser His Gln Pro Ala Ile Ser Glu Lys Thr Asp His Lys
485 490 495

Ala Ser Cys Leu Val Gln Thr Pro Pro Gly Gln Tyr Ser Gly Asn Ser
500 505 510

Phe Lys Lys Gly Asp Ser Asn Ser Cys Glu His Cys Phe Asp Glu Tyr
515 520 525

Asn Thr Asn Leu Glu Gly Trp Asn Glu Val Pro Asp Glu Ala Tyr Asp
530 535 540

Leu Leu Asp Lys Leu Leu Asp Leu Asn Pro Ala Ser Arg Ile Thr Ala
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Glu Glu Ala Leu Leu His Pro Phe Phe Lys Asp Met Ser Leu
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Asn Glu Phe Leu Ala Lys Ala Arg Gly Asp Phe Leu Tyr Arg Trp Gly
20 25 30

Asn Pro Ala Gln Asn Thr Ala Ser Ser Asp Gln Phe Glu Arg Leu Arg
35 40 45

Thr Leu Gly Met Gly Ser Phe Gly Arg Val Met Leu Val Arg His Gln
50 55 60

Glu Thr Gly Gly His Tyr Ala Met Lys Ile Leu Asn Lys Gln Lys Val
65 70 75 80

Val Lys Met Lys Gln Val Glu His Ile Leu Asn Glu Lys Arg Ile Leu
85 90 95

Gln Ala Ile Asp Phe Pro Phe Leu Val Lys Leu Gln Phe Ser Phe Lys
100 105 110

Asp Asn Ser Tyr Leu Tyr Leu Val Met Glu Tyr Val Pro Gly Gly Glu
115 120 125

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Met Phe Ser Arg Leu Gln Arg Val Gly Arg Phe Ser Glu Pro His Ala
130 135 140

Cys Phe Tyr Ala Ala Gln Val Val Leu Ala Val Gln Tyr Leu His Ser
145 150 155 160

Leu Asp Leu Ile His Arg Asp Leu Lys Pro Glu Asn Leu Leu Ile Asp
165 170 175

Gln Gln Gly Tyr Leu Gln Val Thr Asp Phe Gly Phe Ala Lys Arg Val
180 185 190

Lys Gly Arg Thr Trp Thr Leu Cys Gly Thr Pro Glu Tyr Leu Ala Pro
195 200 205

Glu Ile Ile Leu Ser Lys Gly Tyr Asn Lys Ala Val Asp Trp Trp Ala
210 215 220

Leu Gly Val Leu Ile Tyr Glu Met Ala Val Gly Phe Pro Pro Phe Tyr
225 230 235 240

Ala Asp Gln Pro Ile Gln Ile Tyr Glu Lys Ile Val Ser Gly Arg Val
245 250 255

Arg Phe Pro Ser Lys Leu Ser Ser Asp Leu Lys His Leu Leu Arg Ser
260 265 270

Leu Leu Gln Val Asp Leu Thr Lys Arg Phe Gly Asn Leu Arg Asn Gly
275 280 285

Val Gly Asp Ile Lys Asn His Lys Trp Phe Ala Thr Thr Ser Trp Ile
290 295 300

Ala Ile Tyr Glu Lys Lys Val Glu Ala Pro Phe Ile Pro Lys Tyr Thr
305 310 315 320

Gly Pro Gly Asp Ala Ser Asn Phe Asp Asp Tyr Glu Glu Glu Glu Leu
325 330 335

Arg Ile Ser Ile Asn Glu Lys Cys Ala Lys Glu Phe Ser Glu Phe
340 345 350